IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Previously Presented) An electrophysiology system comprising:

a data processing system configured to be communicatively coupled to one or more probes configured to be positioned inside a heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart, the data processing system being configured to store the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes; and

a display communicatively coupled to the data processing system and configured to simultaneously illustrate a display of a three dimensional image of the heart with a physician comment correlated to a respective position of the probe, wherein the physician comment and the respective position of the probe is registered relative to the three dimensional image of the heart;

wherein the electrophysiology system is configured to be coupled to a network and to receive data used to produce the image of the heart over the network.

2. (Previously Presented) The electrophysiology system of claim 1, wherein the data is acquired using an internal medical imaging system.

3. (Previously Presented) The electrophysiology system of claim 2, wherein the internal medical imaging system comprises at least one of a computed tomography imaging system, a magnetic resonance imaging system, an ultrasound imaging system, a positron emission tomography imaging system, a single photon emission computed tomography system, or a optical coherence tomography system.

4. (Previously Presented) The electrophysiology system of claim 1, wherein the network comprises a wireless network.

5. (Previously Presented) The electrophysiology system of claim 1, wherein the network comprises the Internet.

6. (Previously Presented) The electrophysiology system of claim 1, wherein an internal medical imaging system is coupled to the network, and wherein the data is acquired using the imaging system and stored on a data storage system coupled to the network before the one or more probes are positioned inside the heart.

7. (Previously Presented) The electrophysiology system of claim 1, wherein the data is stored in a database on the network.

8. (Previously Presented) The electrophysiology system of claim 7, wherein a database management system is used to control the organization, storage and retrieval of the data in the database.

9. (Original) The electrophysiology system of claim 1, wherein the system is configured to generate a report which comprises the electrical information, the position information, and the image.

10. (Previously Presented) A system comprising:

an electrophysiology system, comprising

a processor configured to be communicatively coupled to one or more probes configured to be positioned inside the heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart, the processor being used to process the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes, and

a display communicatively coupled to the processor and configured to simultaneously illustrate a display of an image of the heart with a with a physician comment correlated to a respective position of the probe, wherein the physician comment and the respective position of the probe is registered relative to the three dimensional image of the heart; and

a file server communicatively coupled to the electrophysiology system by way of a network, the file server being configured to store data used to produce the image of the heart;

wherein the data used to produce the image of the heart is obtained by the electrophysiology system from the file server by way of the network.

11. (Previously Presented) The system of claim 10, wherein the data is acquired using an internal medical imaging system.

12. (Previously Presented) The system of claim 11, wherein the internal medical imaging system comprises at least one of a computed tomography imaging system, a magnetic resonance imaging system, an ultrasound imaging system, a positron emission tomography imaging system, a single photon emission computed tomography system, or a optical coherence tomography system.

13. (Previously Presented) The system of claim 10, wherein the network comprises a wireless network.

14. (Previously Presented) The system of claim 10, wherein an internal medical imaging system is used to acquire the data before the one or more probes is positioned inside the heart, and wherein after the data is acquired it is stored on the file server.

15. (Previously Presented) The system of claim 10, wherein the file server comprises a database that includes a plurality of data sets used to produce a plurality of images, the plurality of data sets includes the data used to produce the image of the heart.

16. (Original) The system of claim 10, wherein the system is configured to generate a report which comprises the electrical information, the position information, and the image.

17. (Original) The system of claim 10, wherein the processor is used to process the position information to create a structural map of the heart.

18-24. Cancelled.

25. (Previously Presented) An electrophysiology system comprising:

a data processing system configured to be communicatively coupled to one or more probes configured to be positioned inside a heart of a patient, at least one of the one or more probes being configured to sense electrical information pertaining to the heart, the data processing system being configured to store the electrical information and position information, the position information pertaining to the position of at least one of the one or more probes; and

a display communicatively coupled to the data processing system and configured to simultaneously illustrate a display of a three dimensional image of the heart with a physician comment correlated to a respective position of the probe, wherein the physician comment and the respective position of the probe is registered relative to the three dimensional image of the heart, the three dimensional image being constructed based on a plurality of image slices each of which represents a cross sectional slice of the heart;

wherein the electrophysiology system is configured to be coupled to a network and to receive data used to produce the three dimensional image of the heart over the network.

26. (Previously Presented) The electrophysiology system of claim 1, wherein on or more probes comprises a catheter.